



Office Action Summary

Application No.	Applicant(s)	
10/731,205	JERNIGAN, STEVEN RAY	
Examiner	Art Unit	
Philip J. Sobutka	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 November 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.



Application No. 10/731,205

Steven Ray Jernigan

Apt# 211-A

508 N. Dagmar

Hebbronville, TX 78361

361-946-1486

We claim:

Uniqueness of device is the modular design of the system allowing the user to change or upgrade or add on to the system as new forms of storage or media become available.

The S-Ray Automotive entertainment system, hereafter referred to as S-Ray, will play and record to all modern available media including but not limited to; DVD, DVD/R, Flash storage, CD-Rom and CD/RW media and can be upgraded for new forms of media storage not yet available. It will receive and allow the user to record unprotected, AM/FM/XM/TV/CB and Shortwave broadcast to all current CD/DVD type media. Said system will be software driven and can be controlled by an optional touch-screen LCD monitor and updated by means of a rear panel access port. The system is modular in construction which allows users to custom design the entertainment system to meet their wants or needs including different PCS/cell phone cards for different cell phone providers. The Integrated hands free cell phone module allows users to answer and make calls without taking their hands off the wheel. Said system allows for easy upgrades such as to new media and broadcast types, and a voice interactive system control interface. Said system can record from one type of media to another using an onboard hard disc drive storage system. This system is user upgradeable using plug-in modules.

Definitions;

Automotive – as applied to above; Designed to be used in an automobile/truck, etc. environment. Designed to operate using standard +12 volt DC automotive power.

Modern media - as applied to above is current storage removable media such as DVD and CDRom.



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SUMMARY OF THE INVENTION

What makes this invention unique is that it is modular which allows users or installers to custom design the entertainment system to meet a specific need or want as well as allow easy future upgrades to new media and broadcast types along with a voice interactive system control interface.

The S-Ray automotive entertainment system takes advantage of all available media and broadcast services and combines them into a double-din, w/LCD touch screen option, in dash system for the vehicle.

The device plays and records DVD, DVD/R, Flash storage, CD-Rom and CD/RW media. It receives and allows the user to record from, AM/FM/XM and TV broadcast as well as from one type of media to another using an onboard hard disc drive storage system. The system is modular which allows custom easy future upgrades to new media and broadcast types along with a voice interactive system control interface.

KEY POINTS

User interchangeable card modules

Upgradeable

Updateable

128 bit wide buss architecture allows for future processor upgrades

All components reside on plug in card modules

Description of Drawings

Figure 1 – Proposed Interchangeable faceplate design with color LCD screen.

Figure 2. – Shows the proposed lay out of the main-board that all card/modules will plug in to.

Figure 3 - Demonstrates how the different modules will plug in to the main board.

Figure 4 – Illustrates possible pc run layouts for the main-boards construction.

Figure 5 – Shows the populated rear panel connections for the different modules installed.

Figure 6 – Provides an overall outside view of where the various components will be mounted within the unit.

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ABSTRACT

This invention is modular which allows users to custom design the system to best suit their wants and needs. Which until now was not possible. It also allows easy future upgrades to new media and broadcast types and a voice interactive system control interface.

The S-Ray automotive entertainment system takes advantage of all available media and broadcast services and combines them into a compact unit. New upgrades and options can be continually obtained by the user which prevents the unit from becoming obsolete. Options such as LCD touch screen, in dash hands free cell system for the vehicle.

The device plays and records DVD, DVD/R, Flash storage, CD-Rom and CD/RW media. It receives and allows the user to record from, AM/FM/XM/TV/CB and Shortwave broadcast as well as from one type of media to another using an onboard hard disc drive storage system.

KEY POINTS

User interchangeable card modules

Continuously upgradeable

128 bit wide buss architecture allows for future processor upgrades

All components reside on plug in card modules